THE
TRULY
MODERN
HOME
HAS
CONDITIONED
AIR

THE Ultimate IN WINTER COMFORT

Form No. M F 352-151c

MEYER GAS FIRED AIR CONDITIONER

You Merely Set the Thermostat—

THE MEYER GAS FIRED AIR CONDITIONER DOES A COMPLETE JOB OF WINTER AIR CONDITIONING

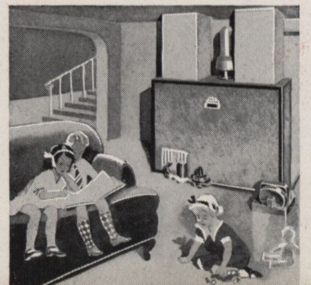
● Doesn't that sound like the ideal substitute for the old-style furnace tending? Think of the peace of mind that comes with the realization of no more trips to the basement to shovel coal! And when you set the thermostat, the results are much more far-reaching than you might suppose. Today it isn't mere heat you want, it's winter comfort—and the Meyer Gas Fired Air Conditioner provides that comfort which, broken down into its component parts, actually means the proper degree of humidity, air filteration, circulation and heat.

● Do you remember the old expression, heard during the summer months, "It isn't the heat, it's the humidity"? Well, strangely enough, the presence of "humidity" not only creates discomfort when it is excessive, but also when it is lacking. This paradox is further explained by scientists, who have studied the subject for years, and they state that moisture must be added to the air in homes during the wintertime for real comfort, and for the still more important reason of health—it reduces human susceptibility to colds—and, though it may surprise you, even your furniture and parts of your house need moisture to remain in good condition. ● It doesn't require scientists to tell you that the removal of dust, lint, cigarette smoke and other impurities from the air is beneficial, but you would be surprised were they to show you the amount of foreign matter in the air you breathe. Also, from the standpoint of the one responsible for the appearance of the home, isn't it pleasant to contemplate less dusting, less cleaning of furniture, draperies and walls, and more household expense money available for other things which you really want? ● Scientists further say that air circulation is essential. Possibly you did not realize it because proper circulation is an unobtrusive thing. Like air filteration, you are not readily conscious of it; you merely feel better because of it. ● Then there is the matter of heat, not too much or too little, but even, steady heat. If you like 75 degrees, you can have it; if 70 is more to your liking, you merely set the thermostat at that point—as has been mentioned before.

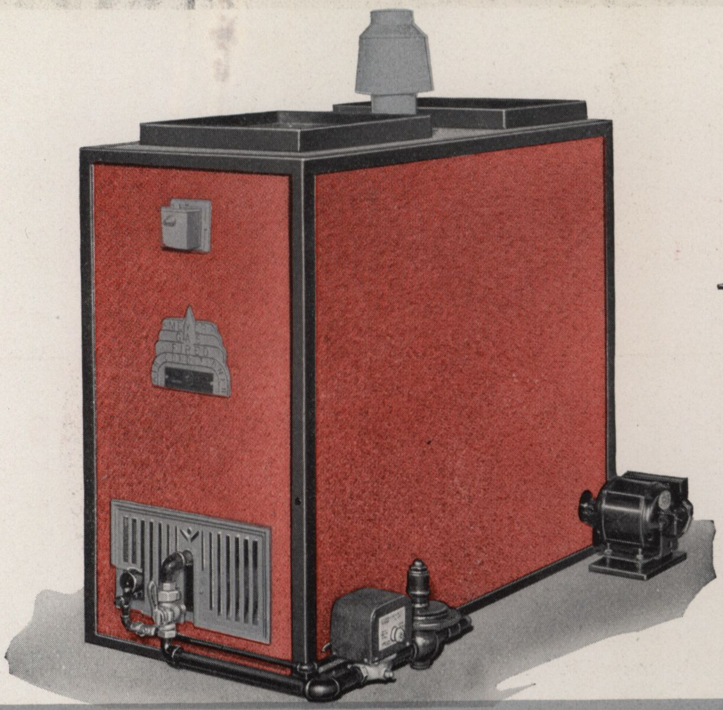
● The Meyer Gas Fired Air Conditioner, of course, burns gas, the ideal fuel; it is designed to burn only gas, and do it most efficiently, at a cost that will enthuse you. Have you ever felt too much of your time has been spent playing nursemaid to a furnace? Gas will eliminate that. And you do not even need to order it, it requires no storage space, and you pay for it after you burn it.

● Another thing, and ofttimes an important one, is appearance. If you cared to, you could put the Meyer Gas Fired Air Conditioner in your living room. You wouldn't do that but it's pleasant to know that with it your basement can be as clean and comfortable as a living room. Possibly you have noticed the illustration on the front cover, taken from a photograph of an actual installation. Set in one corner of the room, compactly and entirely contained in one attractive casing and with ductwork concealed, the conditioner added recreation space to this house worth much to its occupants, as it has in innumerable instances. And in the remainder of the house there is little evidence of this marvelous appliance in the basement. Of course there are no unsightly radiators, but even the grilles, from which the conditioned air gently flows, are small, inconspiciously located in every room. ● Air Conditioning is modern and desirable; it's a wonderful thing to have the year round. In addition to providing conditioned air during the heating season, the Meyer Gas Fired Air Conditioner is designed for the inclusion of cooling and dehumidifying equipment at the time of installation or later. The wise man of today realizes, however, that winter air conditioning is more important than summer air conditioning. Heat is required eight months out of twelve, the eight months which are spent mostly indoors.

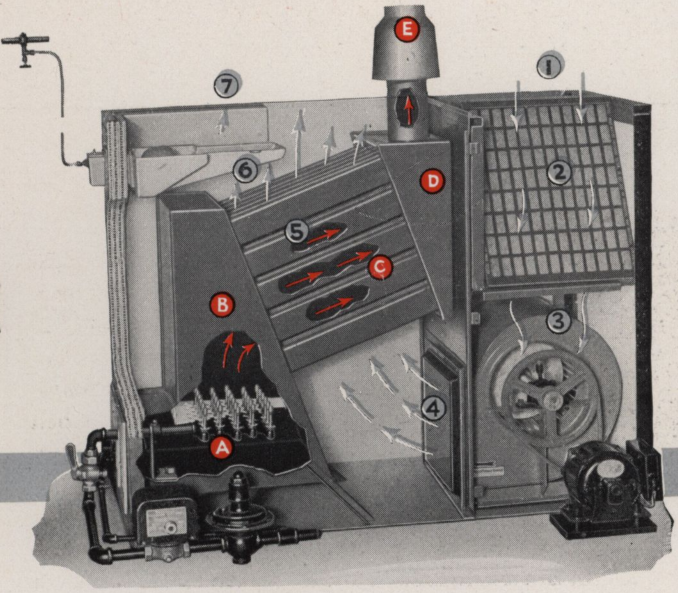
● The installation of a Meyer Gas Fired Air Conditioner assures you that your home will be delightfully comfortable—and it will be modern, years from now.



Additional information will be supplied by your nearest Dealer or The Meyer Furnace Company, Manufacturers, Peoria, Illinois.



Left: The Meyer Gas-Fired Air Conditioner complete, ready for connection to ductwork. Note its simplicity of design and pleasing appearance. Below: Sectional view showing gas burner arrangement in combustion chamber, tubular heat interchanger, filters, fan, humidifier and heavily insulated casing.



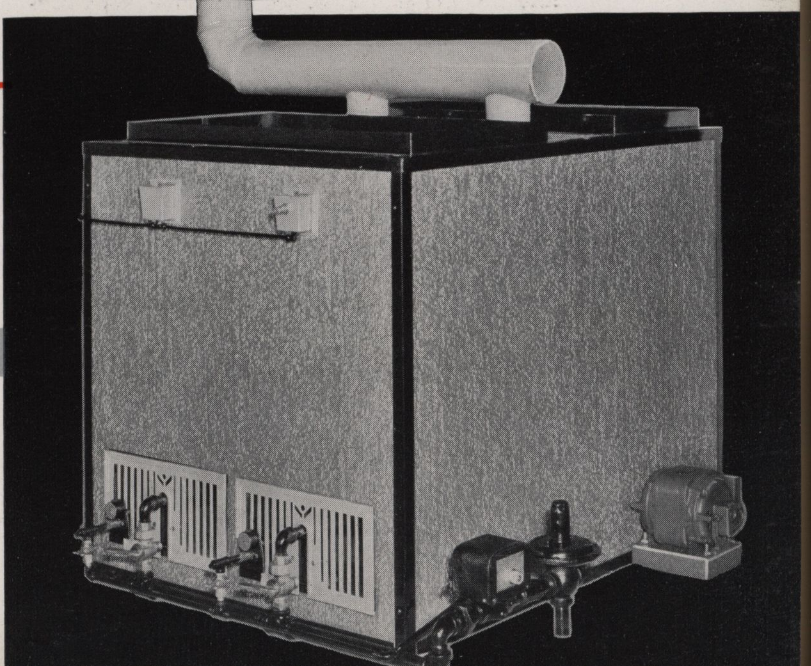
How the Meyer Gas-Fired Air Conditioner Operates

Operation of the Conditioner depends upon room temperature. As soon as it falls a fraction below a set point the thermostat automatically opens the motor gas valve, the burner is ignited from the pilot and the fan sends a flood of air, conditioned to the right temperature, evenly flowing through the house.

The stuffy, vitiated, dust-laden air is drawn from all portions of the living quarters, down through the return air ducts, entering the Air Conditioner at the Inlet (1), passing through the Filters (2) where it is thoroughly purified and cleansed. Entering the Fan at (3), it is put under pressure and blown into the heating chamber at (4) and over the Tubular Heat Interchanger (5) and other heating surfaces to become heated, thence passing the Humidifier (6) where moisture is added. At Outlet (7) it is delivered to the warm air ducts which transport the air to the grilles located in each room, whence it emerges, thoroughly conditioned, to replace the room air which has become contaminated in ordinary usage.

The simultaneous transformation of gas into heat may also be traced in the accompanying illustration. From Burner (A) the hot gases rise in the Combustion Chamber (B) and follow the course of the red arrows, through the Tubular Heat Interchanger (C) into the Collecting Chamber (D) and out through the Draft Hood (E) to the flue.

The illustration below shows a No. B-2 Conditioner which has two heating sections and two fans in one casing. Similarly the Nos. B-3 and B-4 Conditioners are correspondingly built up. This method permits increasing the size of the Conditioner to take care of an enlarged house or greater heating requirements at any later time without discarding then existing equipment.



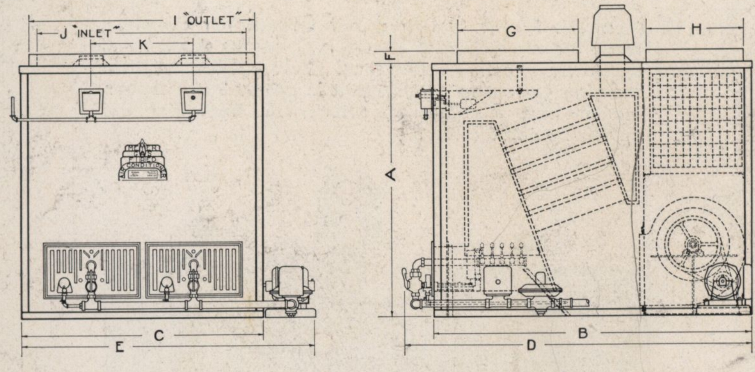
All these features are now available in one self-contained unit, the Meyer Gas Fired Air Conditioner:

- Dependability
- Freedom from attention
- Comfort
- Cleanliness
- Quietness
- Safety
- Long life
- Compactness, easily serviced
- Attractive appearance
- High efficiency

THE MEYER FURNACE COMPANY

PEORIA, ILLINOIS
Established 1866
Manufacturers of WEIR and MEYER Furnaces
and Air Conditioning Equipment

"Who Makes It Makes a Difference"



DIMENSIONS (INCHES)

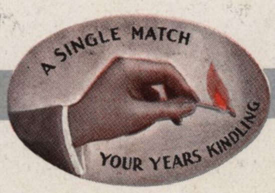
No.	A	B	C	D	E	F	G	H	I	J	K	Vent. Diam.	Approx. Shipping Wt. (Lb.)
B-1	42	53	22	59	32	2	20	16	16	19	—	4	600
B-1½	44	60	27	63	37	2	20	16	20	20	—	5	800
B-2	42	53	40	59	51	2	20	16	36	36	18	7	1100
B-3	42	53	59	59	70	2	20	16	55	55	18	8	1600
B-4	42	53	77	59	91	2	20	16	73	73	18	9	2100

PERFORMANCE DATA

No.	Input at Burner (Btu./hr.)	Output at Bonnet (Btu./hr.)	Output at Register (Btu./hr.)	Gas Consumption Natl. 1000Btu. (C.F.H.)	Gas Consumption Mfd. 550 Btu. (C.F.H.)	Air Delivery at ¼"S.P (C. F. M.)	Motor Size (H.P.)	No. 16"x20" Filters
B-1	90,000	67,500	60,750	90	164	1,000	¼	2
B-1½	135,000	101,250	91,150	135	246	1,500	¼	3
B-2	180,000	135,000	121,500	180	327	2,000	⅓	4
B-3	270,000	202,500	182,250	270	491	3,000	½	6
B-4	360,000	270,000	243,000	360	655	4,000	¾	8

The Meyer Air Conditioning System is tailor-made for each installation. The Service of our Engineering Department is available for preparing complete designs.

THE MEYER FURNACE COMPANY
PEORIA, ILLINOIS

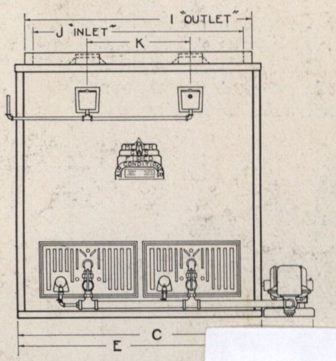


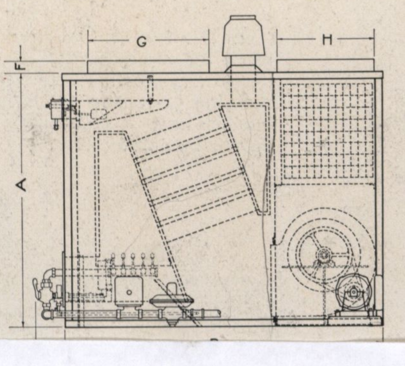
SPECIFICATIONS

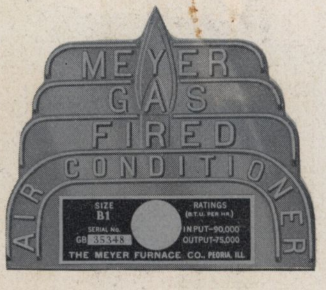
FOR B SERIES

Meyer Gas-Fired Air Conditioner

- **HEATING SECTION**—Designed only for burning gas and only for forced-air circulation; has enormous, vertical heating surfaces; tubular construction separates gases into fine streams for highly efficient heat interchange; all upward flue-gas travel to prevent collection of condensate; combustion chamber of heavy, 12-gauge, rust resisting steel; welded throughout and absolutely gas-tight.
- **BURNER**—Consists of a cast-iron manifold containing a large number of brass tips of the patented Hi-Lo type which produces a butterfly flame and which are especially designed to operate at full rating under the intense heat and at manifold pressures as low as 2½ in., each tip having its own air mixer which requires no adjustment thereby permitting a wide variation in combustion rates and being especially adaptable to modulating control; is noiseless at shut-off; equipped with perforated plate which closely governs admission of secondary air, allowing very little excess, thereby obtaining a highly efficient flame and at the same time producing a stack temperature which is sufficiently high to allow non-condensing operation.
- **BLOWER**—Double-inlet, double-width, low-speed, multiblade, centrifugal type; heavily constructed and designed for this service; self-aligning, bronze sleeve, graphite insert bearings; drive is of V-belt type with balanced sheaves and motor pulley is adjustable for range of speeds; discharge opening into warm-air compartment surrounded with felt gasket to absorb the slightest vibratory noise.
- **MOTOR**—Silent operating, capacitor type; designed for continuous duty; rubber-mounted for quietness and to absorb vibration; slotted base to permit take up of belt slack; 110 volt, 60 cycle, single phase is standard equipment; other motors than standard furnished at slight additional cost.
- **FILTERS**—Highly effieicnt; of fibrous, wool-like material with viscous, odorless coating; have large dust-holding capacity; renewable type, readily accessible.
- **HUMIDIFIER**—Consists of: evaporating pan located immediately over combustion chamber for efficient vaporization, designed so as to allow wide variation in amount of water surface exposed and in corresponding amount of water evaporated; water-level control which automatically keeps pan filled to desired level and which is adjustable to govern evaporating rate; copper tubing for connecting to water supply service, and shut-off valve with saddle clamp; room control equipment furnished at extra cost.
- **CASING**—Constructed of asbestos-concrete composition panels; insulated thoroughly with one to two inches of asbestos air cell attached to inner surface; eliminates metallic rumblings present in other types of casings; has rigidity as well as sound-absorbing qualities; rear panels readily removable for inspection and servicing of fan and filters; finished in attractive red baked enamel with corner posts and horizontal bars of heavy steel finished in black.
- **ROOM THERMOSTAT**—Located in living quarters; when once set by hand at the desired temperature will automatically maintain it throughout building for entire winter; small, compact and attractive in appearance.
- **MOTOR VALVE**—Automatically controls supply of gas to main burners of furnace; operated electrically from the room thermostat; will close automatically in case of current failure; has device allowing for manual operation; 110 volt, 60 cycle, single phase valve is standard equipment; valves for other currents must be ordered specially.
- **BONNET CONTROL**—Combination fan and limit control; automatically starts and stops fan at proper intervals; fan setting adjustable; prevents overheating and wasting of fuel by automatically shutting off gas supply at excessive temperatures.
- **SAFETY PILOT**—Completely automatic and designed for absolute safety of operation; should pilot flame be extinguished, pilot will prevent opening of main motor valve; designed for operation under intense heat developed in combustion chamber.
- **PRESSURE GOVERNOR**—Reliable, spring-adjustment type which permits accurate control of gas pressure not possible with dead weight type.
- **DRAFT HOOD**—Designed in accordance with latest A. G. A. specifications; controls furnace draft; also acts as down-draft diverter to prevent reverse currents of air from chimney from entering combustion chamber and extinguishing pilot; constructed of heavy weight lead-coated rust-resisting steel.







SPECIFICATIONS

No.	A	B
B-1	42	53
B-1½	44	60
B-2	42	53
B-3	42	53
B-4	42	53

No.	Input at Burner (Btu./hr.)
B-1	90,000
B-1½	135,000
B-2	180,000
B-3	270,000
B-4	360,000

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